

FIG. 1

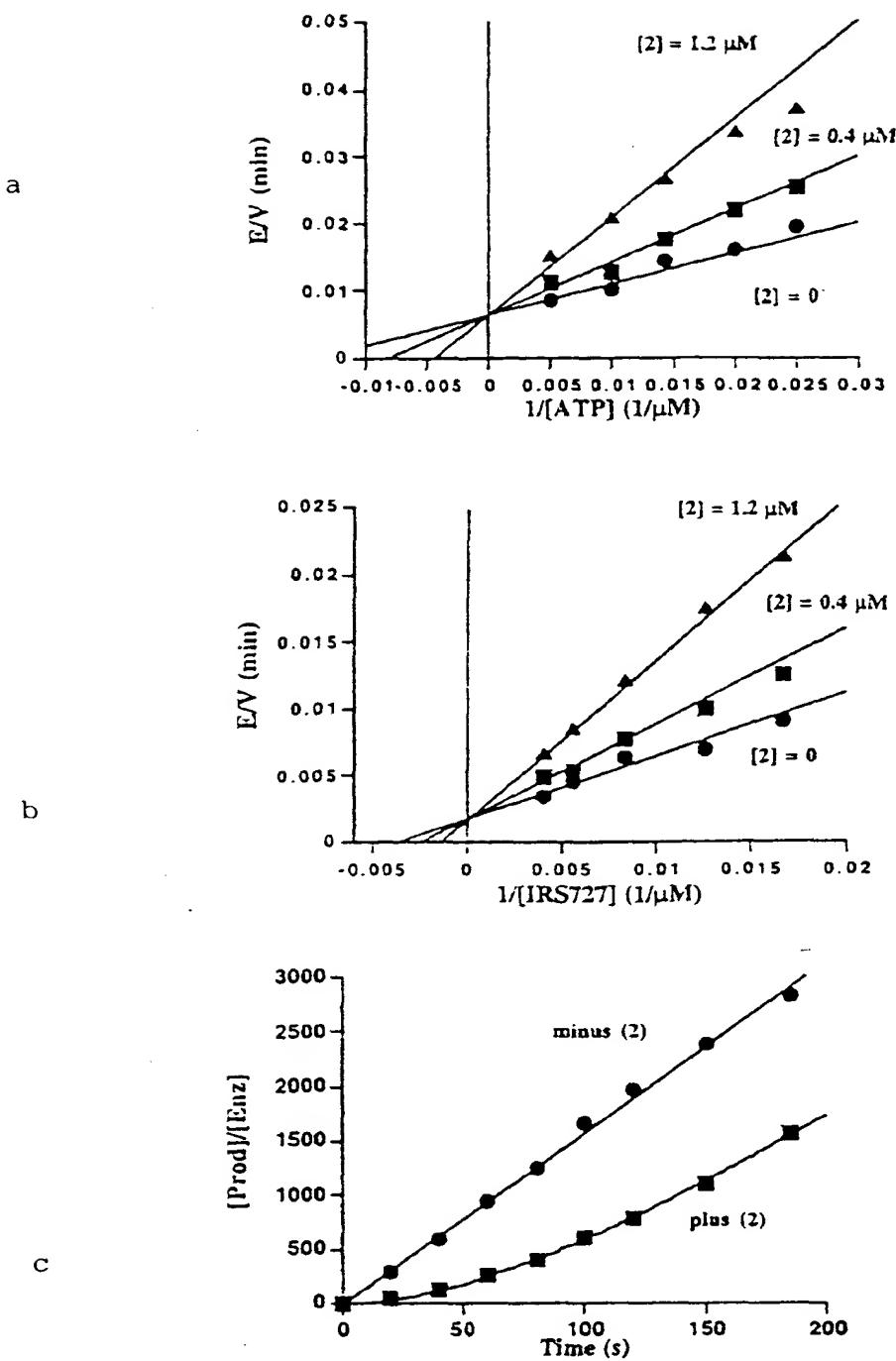


FIG. 2

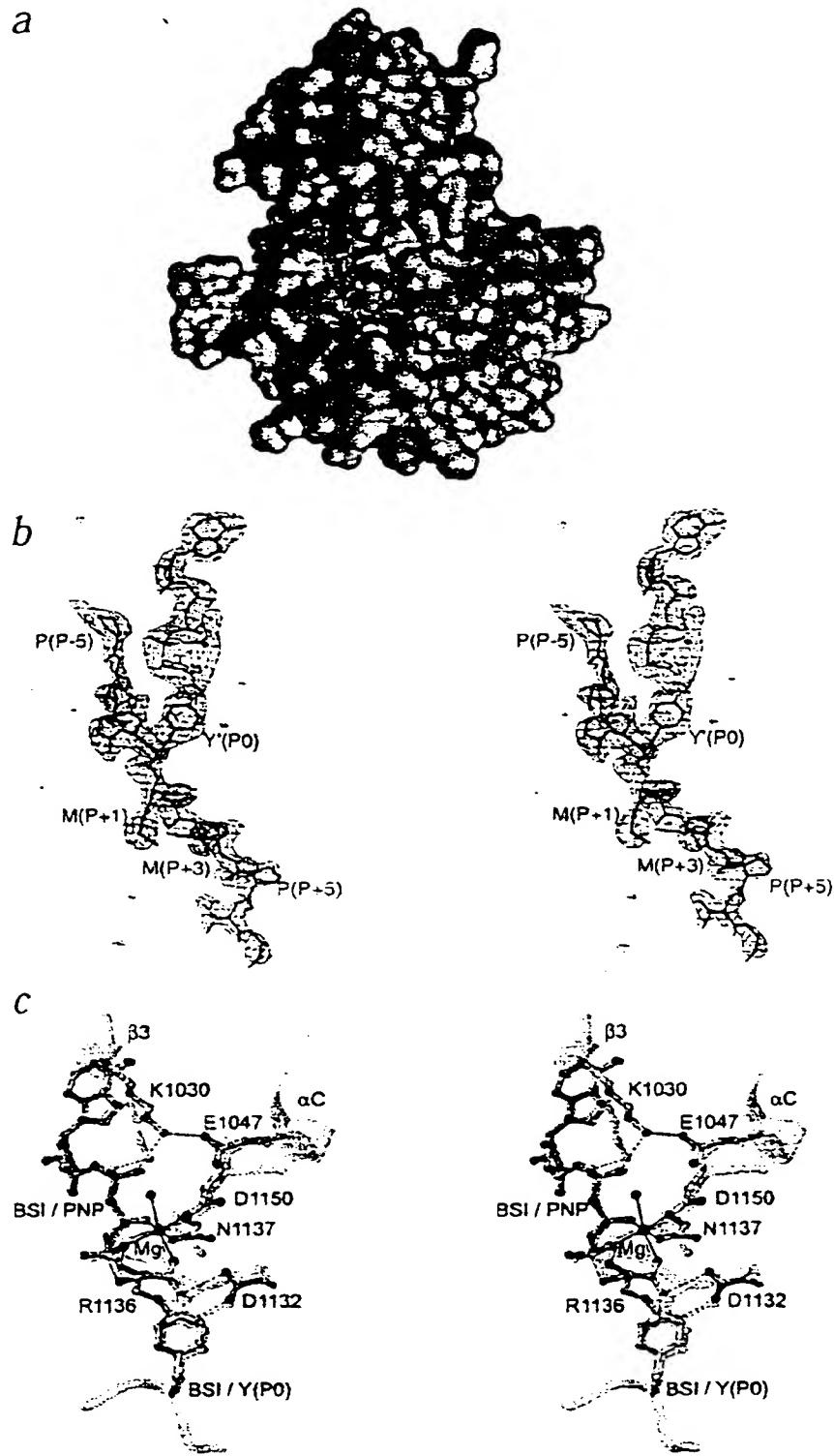
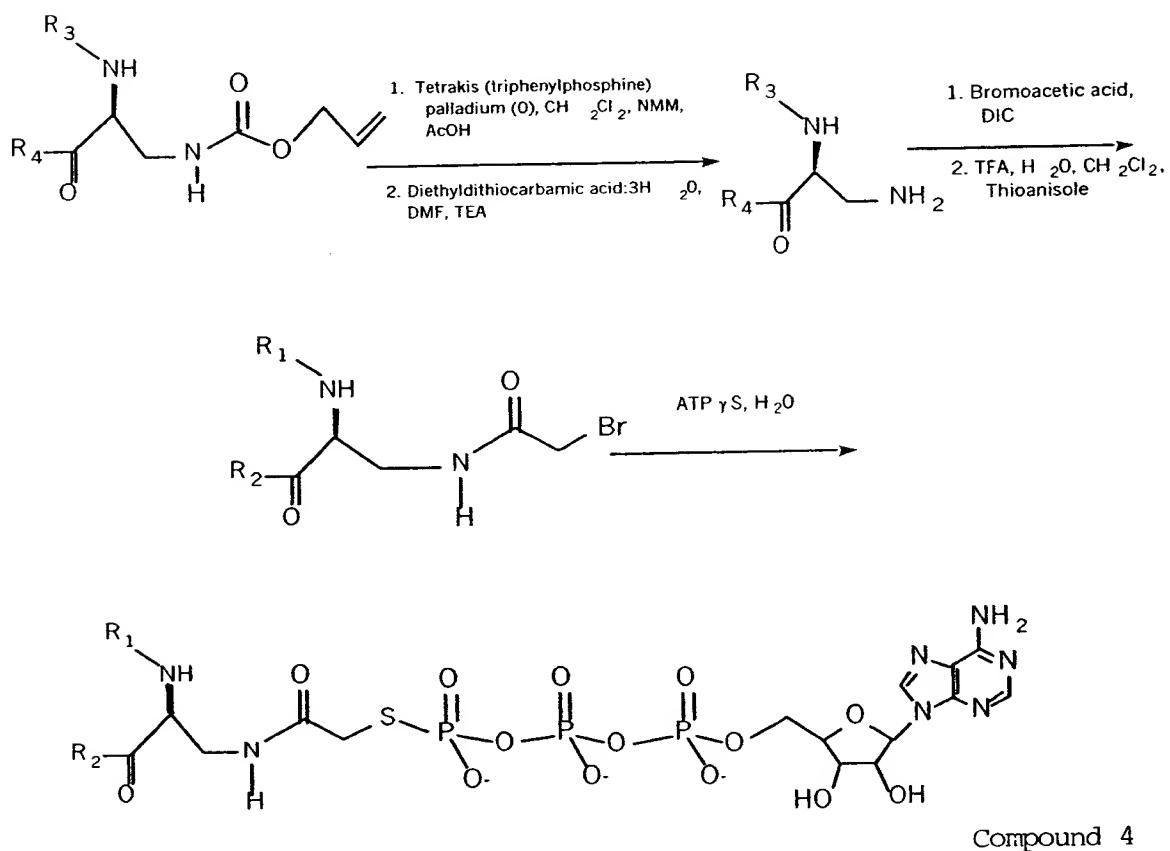
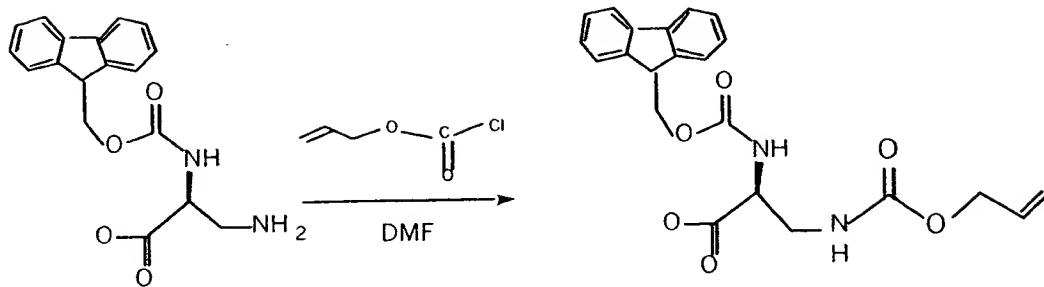


FIG. 3



$R_1 = \text{AcNH-Leu-Arg-Arg-Ala}$

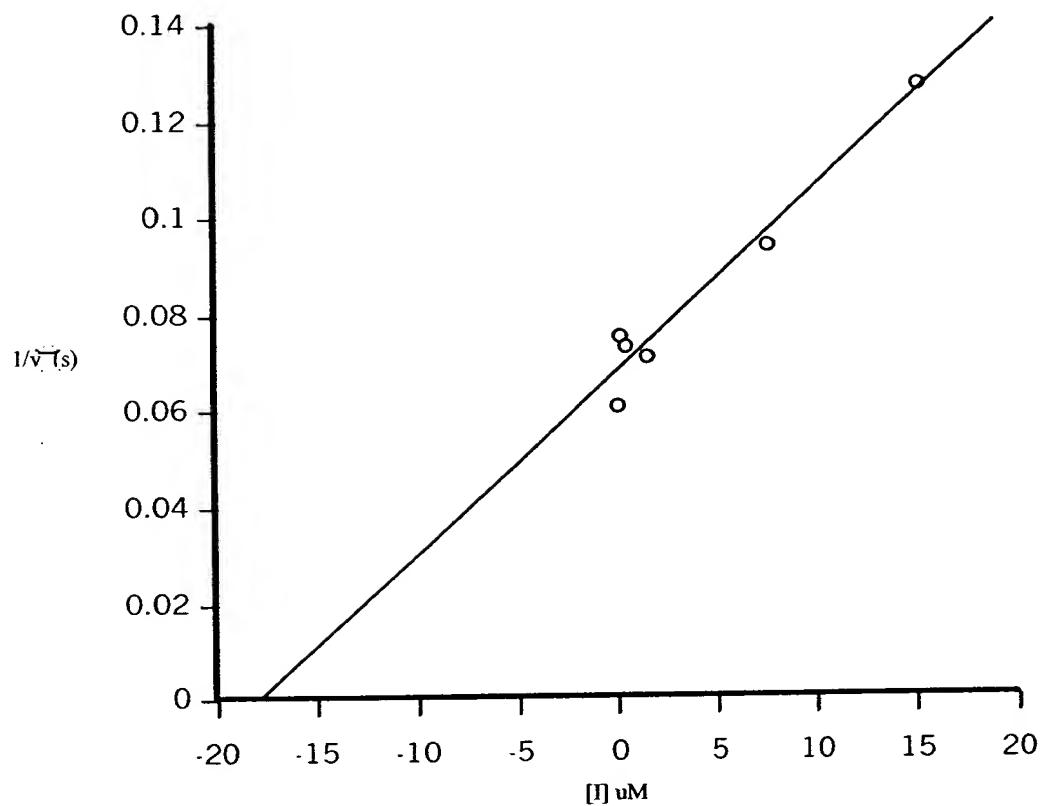
$R_2 = \text{-Leu-Gly-COOH}$

$R_3 = R_1$  with Arg protecting groups

$R_4 = R_2$  with Gly linked to Wang resin

FIG. 4

### Kemptide Inhibitor Assay



Inhibition assay for protein kinase A.

Final concentrations for reaction components : ATP = 15 uM,  
kemptide = 25 uM, Mg<sup>2+</sup> = 10mM, Tris-HCl = 40 mM,

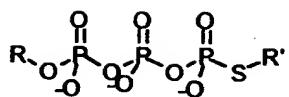
bovine serum albumin (from enzyme mix) 150 ug/mL.

All reactions were carried out at pH 7.5 and with a

final enzyme concentration of 0.35 nM

for 2 minutes at 30 degrees Celsius.

FIG. 5

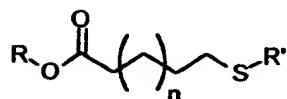


$\text{R}'=\text{CH}_2\text{CO-peptide or peptidomimetic}$

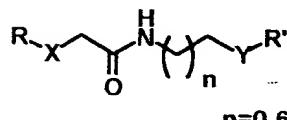
$\text{R}=\text{adenosine or nucleoside analog}$



$n=0-6$

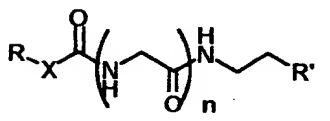


$n=0-6$

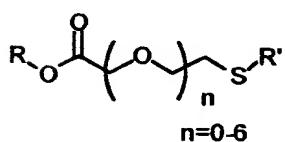


$n=0-6$

$\text{X}=\text{O, NH, S, CH}_2$   
 $\text{Y}=\text{O, NH, S, CH}_2$



$n=0-6$



$n=0-6$

FIG. 6